

Figure 1

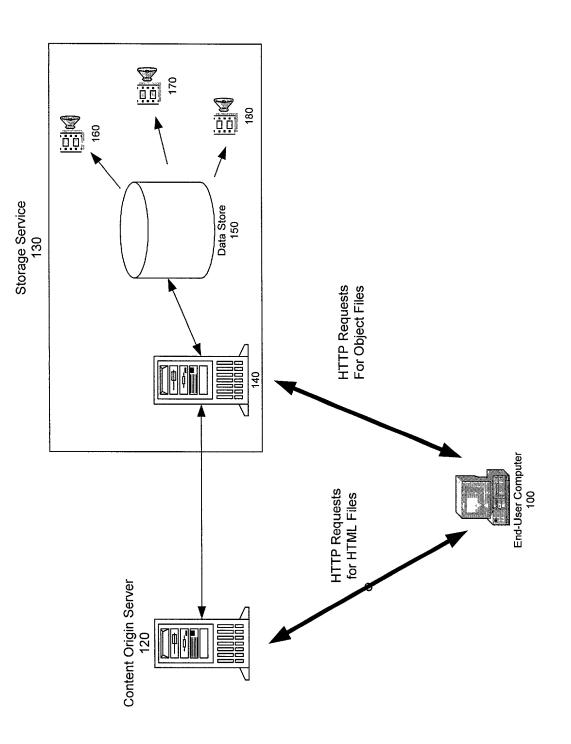


Figure 2

Intelligent Storage Nodes

Figure 3

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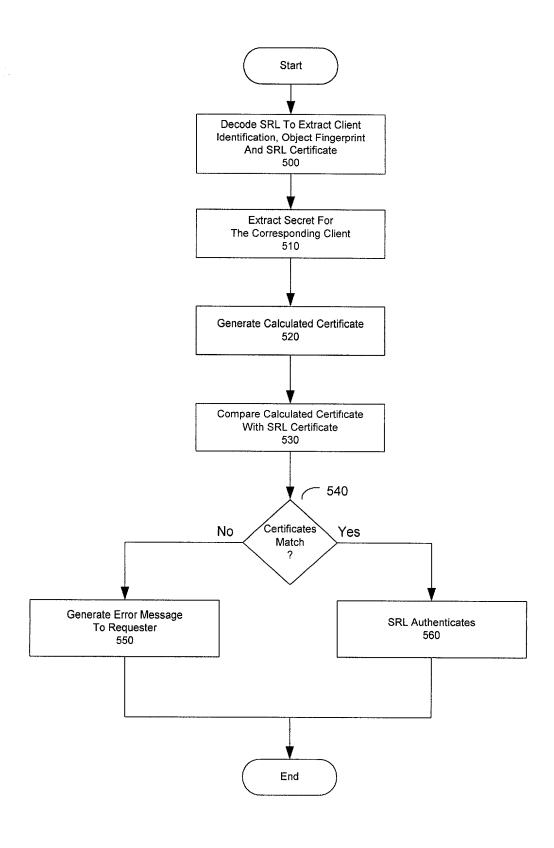
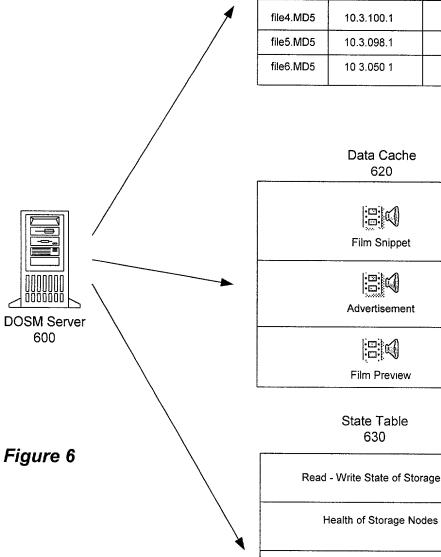


Figure 5

DOSM File Look-up Table 610

File Id	IP Addr	Disk Id
file1.MD5	10.3.100.1	3
file2.MD5	10.3.098.1	1
file3.MD5	10.3.050.1	6
file4.MD5	10.3.100.1	2
file5.MD5	10.3.098.1	1
file6.MD5	10 3.050 1	8



Read - Write State of Storage Nodes

Load of Storage Nodes

- Storage Capacity
 Number of I/O Operations Per Second

Figure 7

Disk Id "n"

Disk Id 3

Disk ld 2

Disk Id 1

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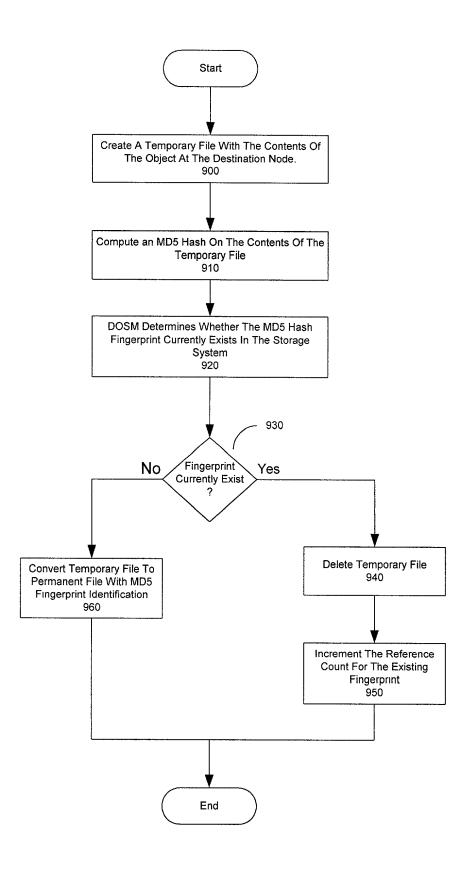


Figure 9

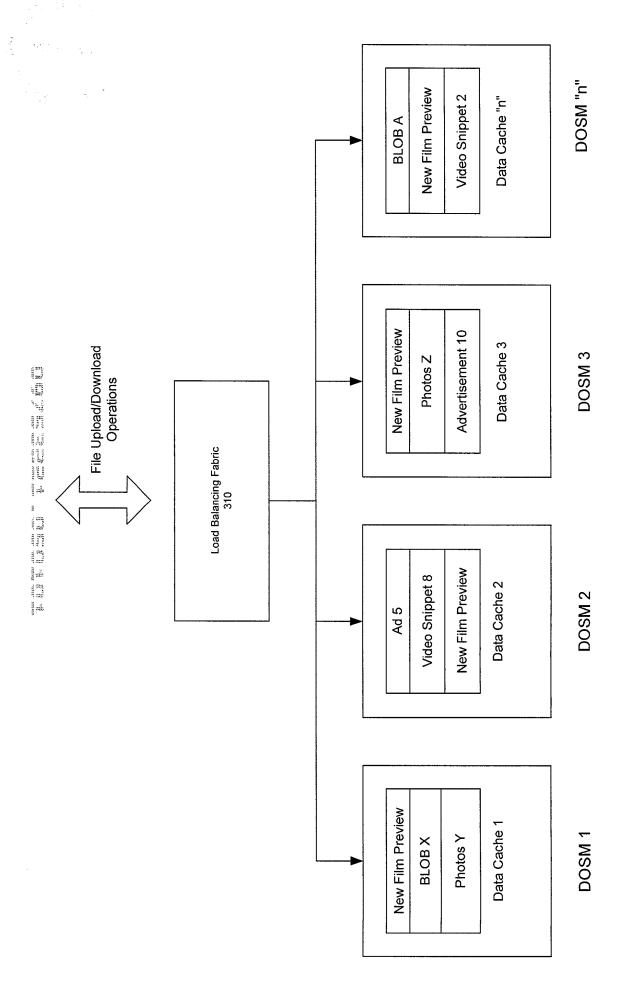


Figure 10

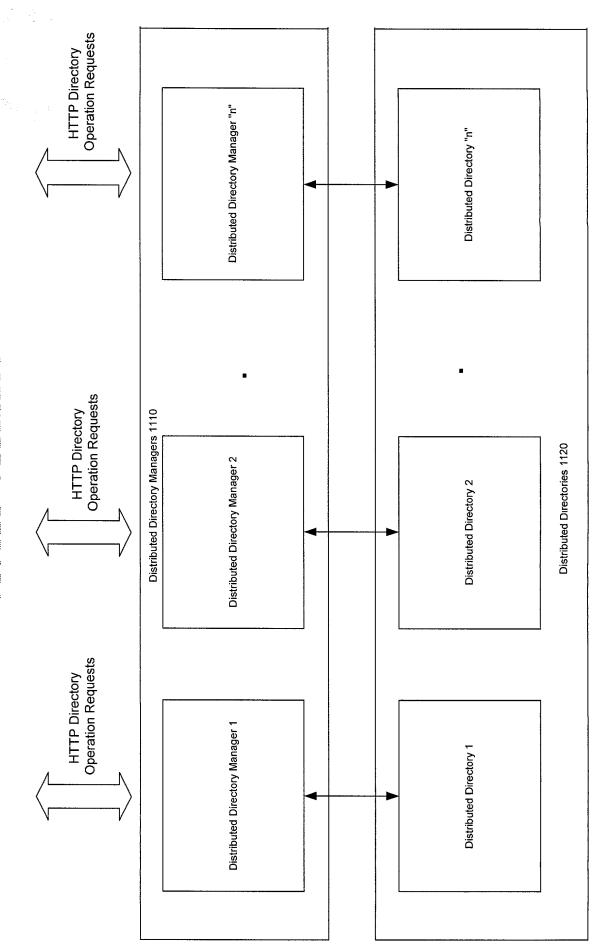


Figure 11

Customer Table

Customer Name	Customer Reserved Fields]
Customer A	[Customer stores data]	1200
Customer B	[Customer stores data]	
Customer C	[Customer stores data]	
Customer D	[Customer stores data]	

Folder Table

Customer Id	Folder Id	Folder Parent Id	Metadata	
3	2	-	[Reserved]	1210
3	100	2	[Reserved]	Y
3	251	2	[Reserved]	
3	166	251	[Reserved]	

File Table

Customer Id	File Handle	Folder Id	Folder Parent Id	Metadata	
3	52.MD5	100	2	[Reserved]	1220
3	55.MD5	100	2	[Reserved]	Y
3	99.MD5	166	251	[Reserved]	
3	67.MD5	166	251	[Reserved]	

Figure 12

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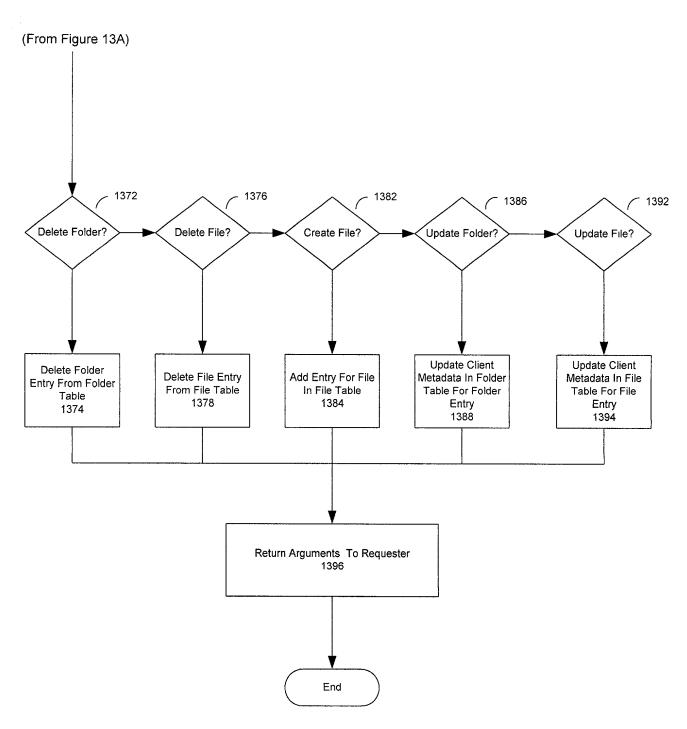
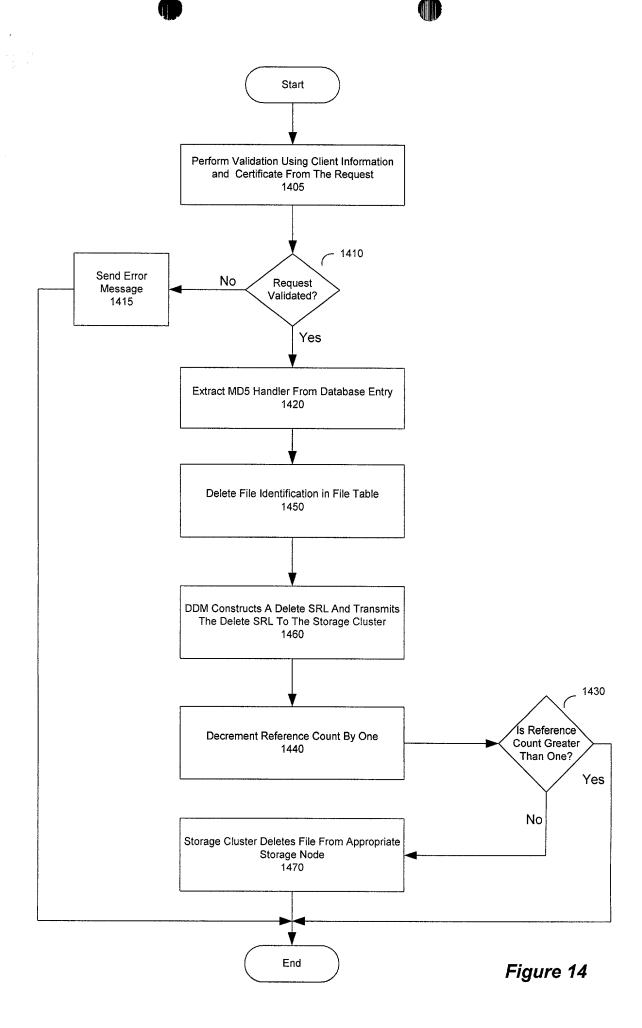


Figure 13B



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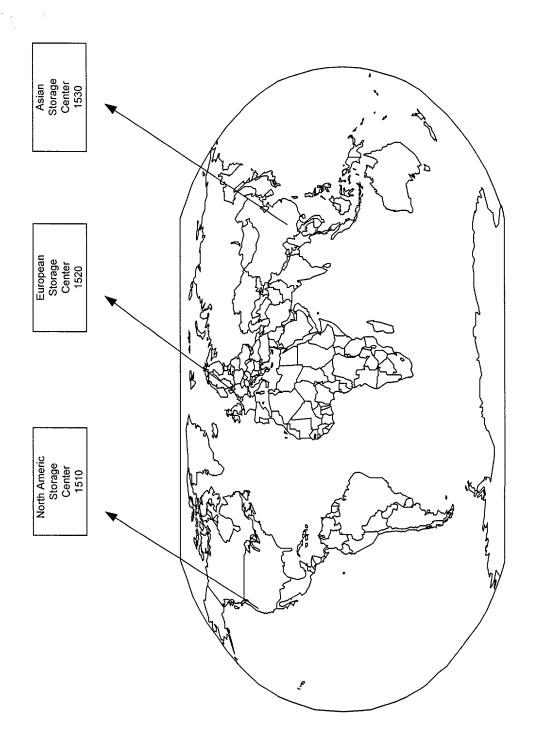
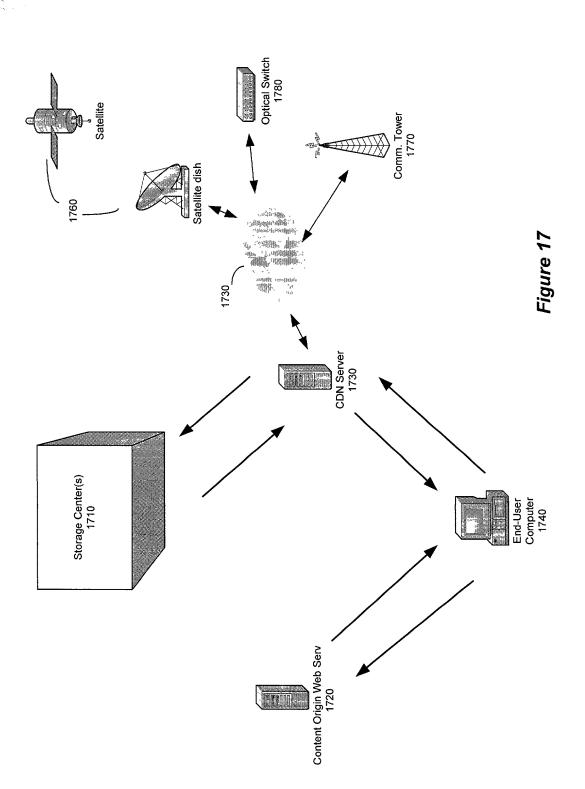


Figure 15

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4. 1.3 1. 1.1 1.1 1.1 1.1 1.1

Figure 16



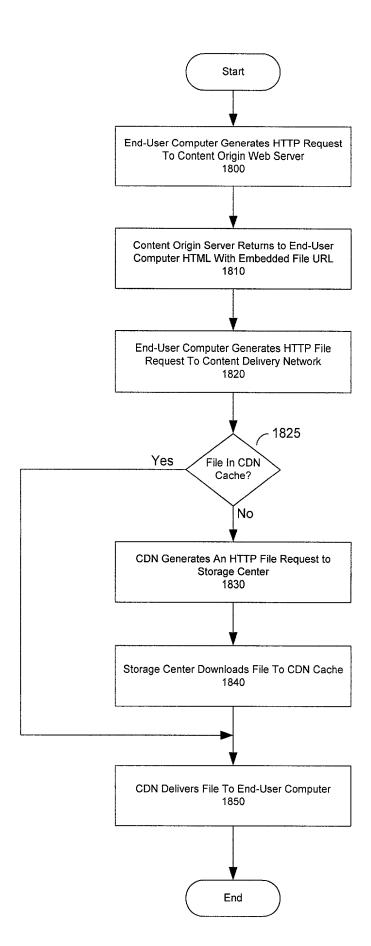


Figure 18

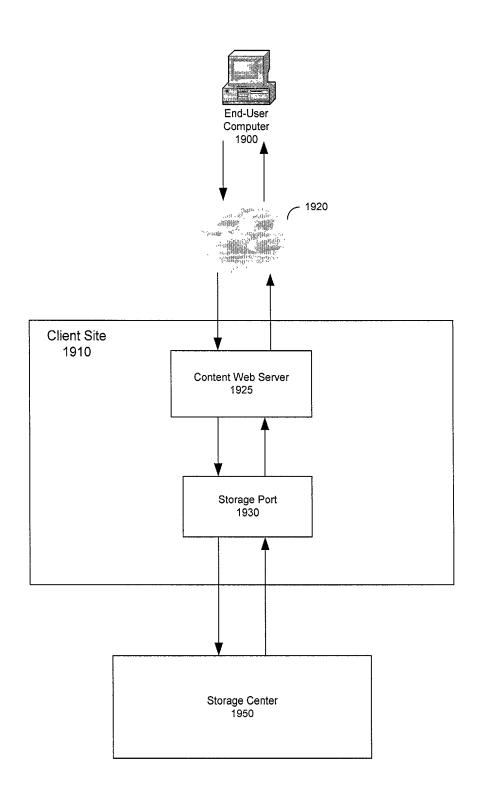


Figure 19

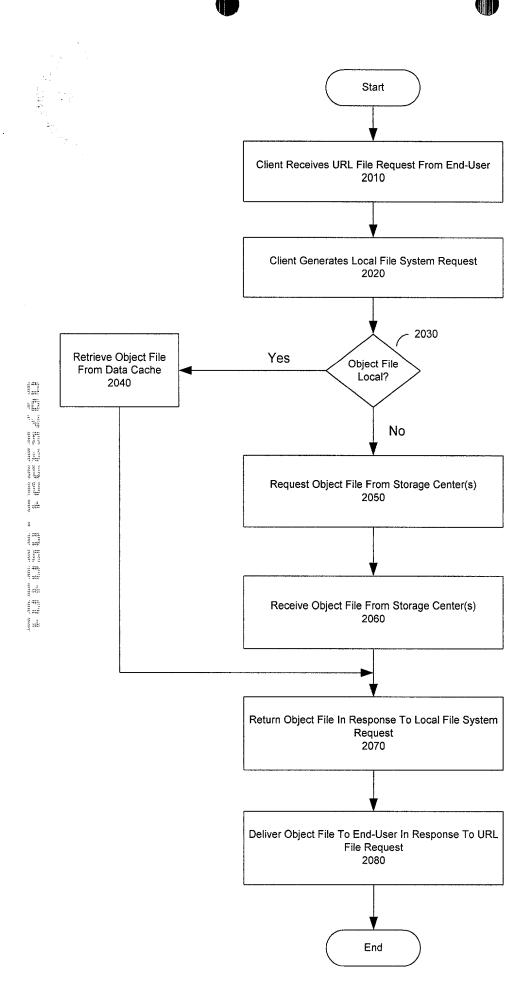


Figure 20

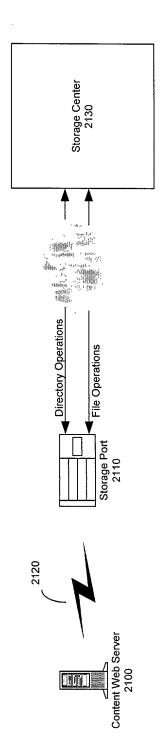


Figure 21a

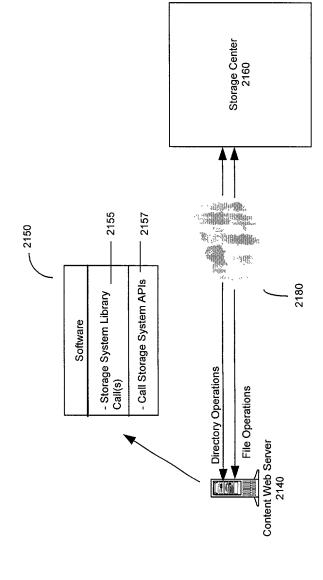


Figure 21b

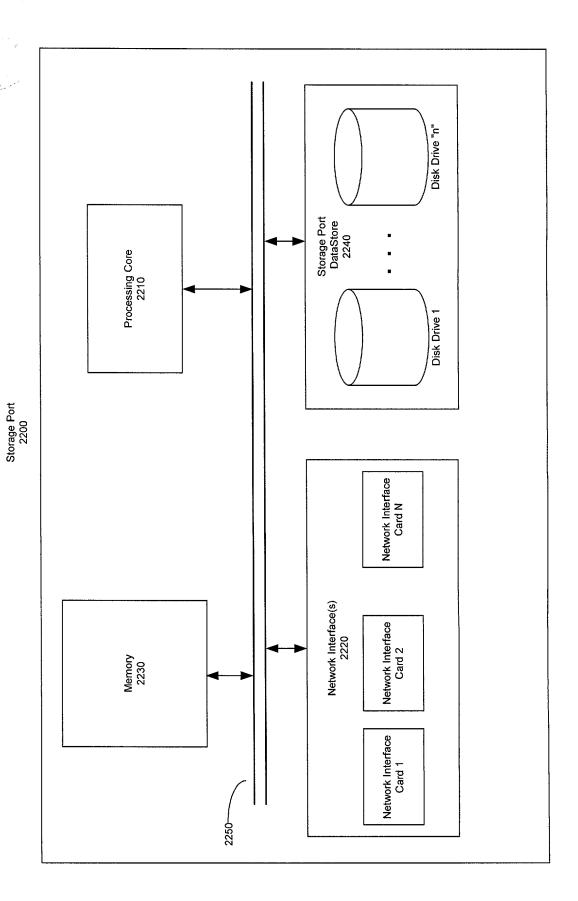


Figure 22

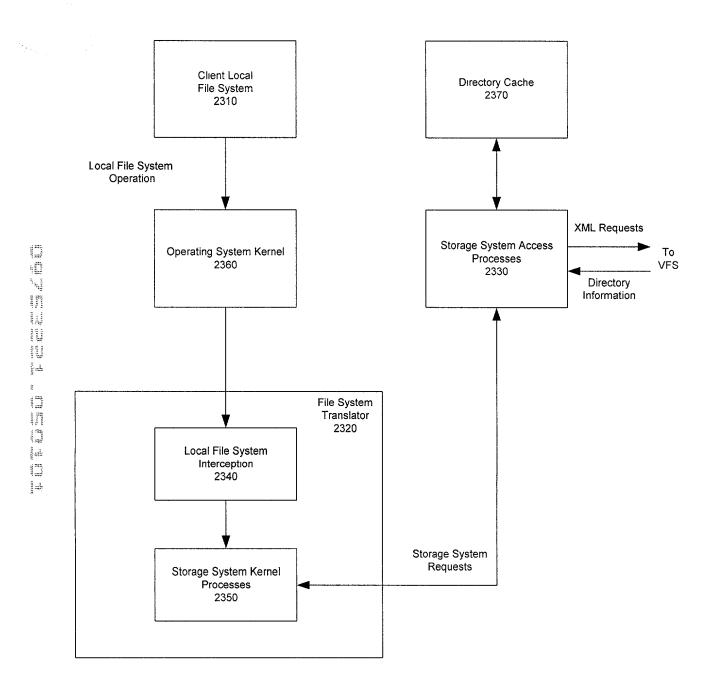
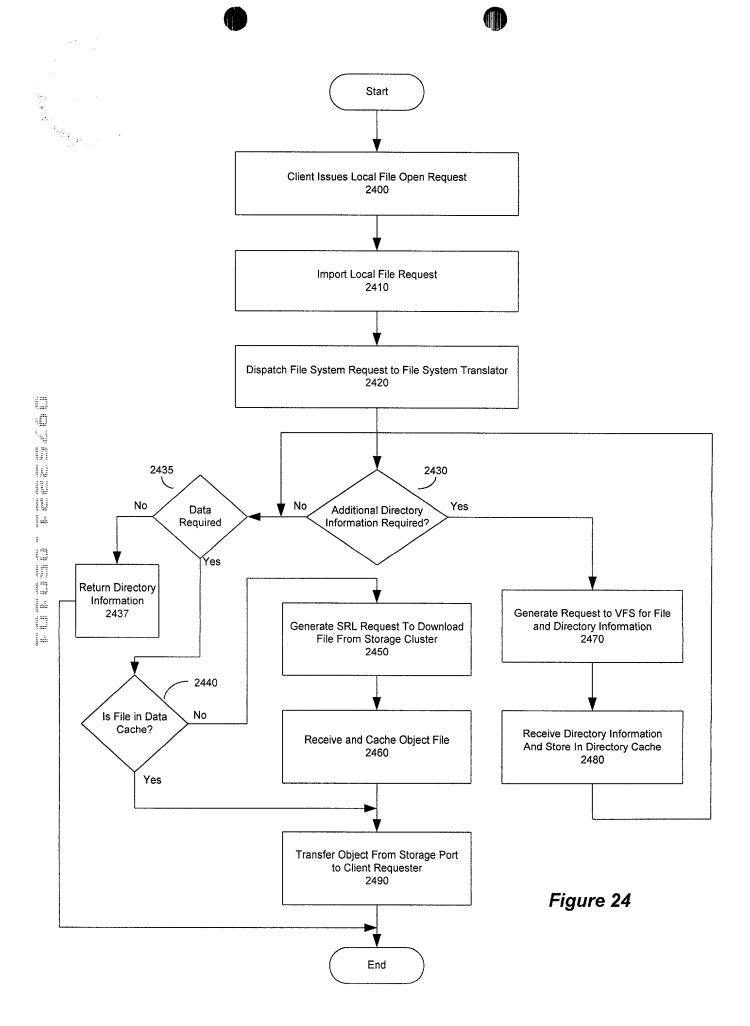


Figure 23



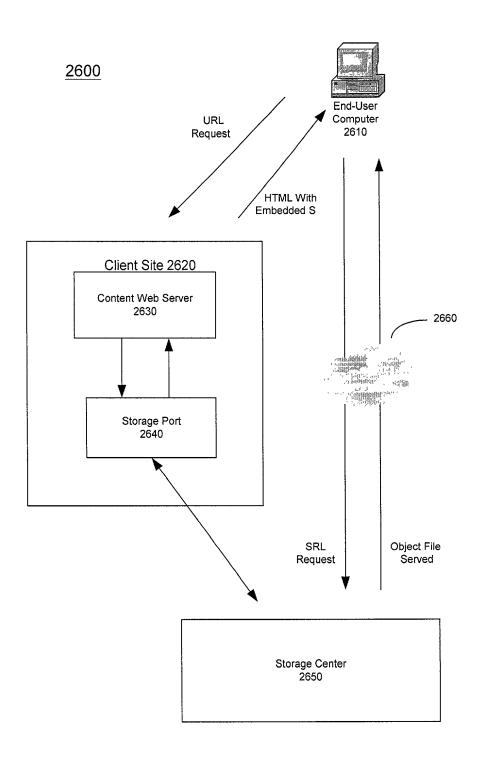
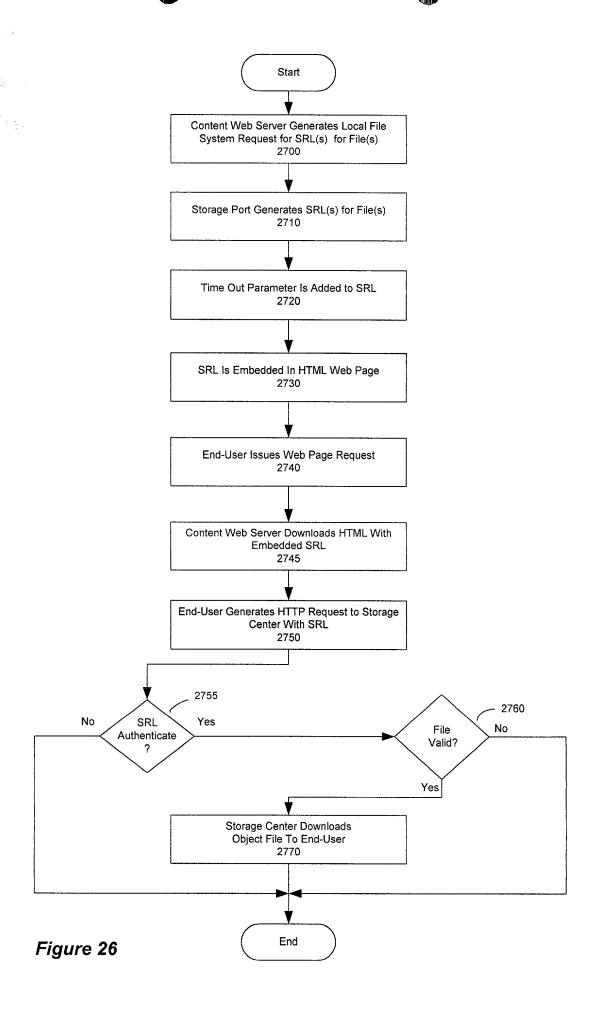


Figure 25



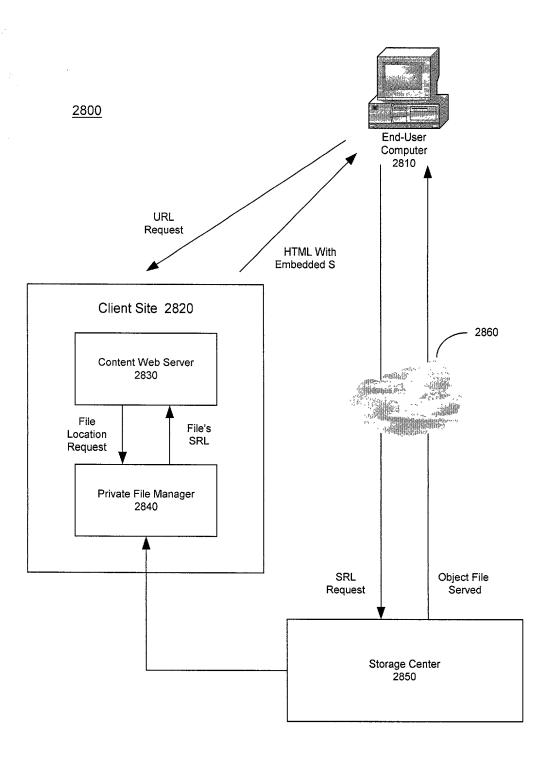


Figure 27

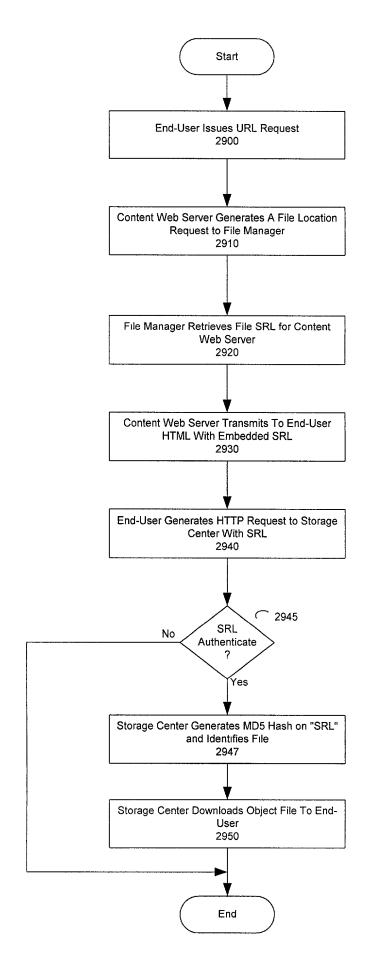


Figure 28

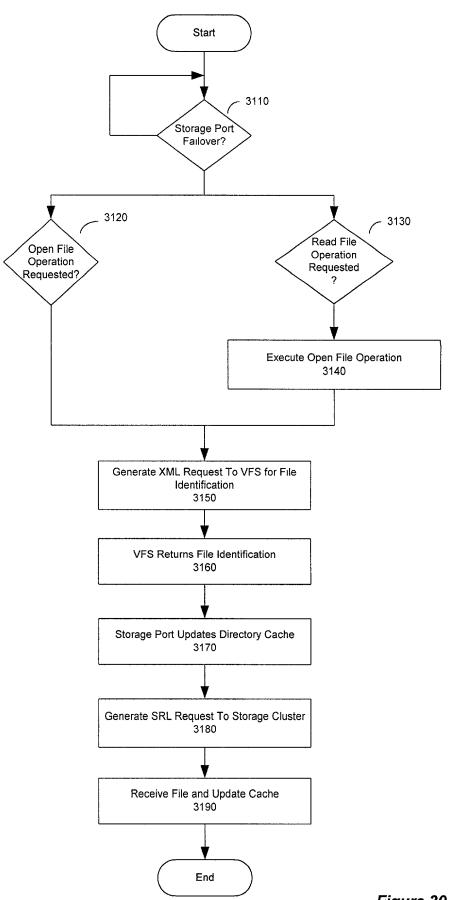


Figure 30

